

## Kissinger, Lon

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**From:** Kissinger, Lon  
**Sent:** Thursday, December 10, 2015 5:19 AM  
**To:** Frank Gobas; Shephard, Burt  
**Subject:** Re: Comparison of Risk Based vs. Ambient Endosulfan Water Concentrations

Note: I misread the risk based water concentration table. Alpha and beta endosulfan have the same risk based water concentration

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**From:** Kissinger, Lon  
**Sent:** Thursday, December 10, 2015 5:11 AM  
**To:** Frank Gobas; Shephard, Burt  
**Subject:** Comparison of Risk Based vs. Ambient Endosulfan Water Concentrations

Hi,

I examined the references Burt sent (i.e. Alvarez 2014, Ecology 2012, and USGS 1994/1998). Beta endosulfan is the only isomer for which a risk based water concentration is available. Although there are analytical issues in that sometimes a summed endosulfan (alpha and beta) water concentration may be presented rather than beta endosulfan alone, generally, ambient water endosulfan concentrations appear to be 3 to 4 orders of magnitude lower than the risk based concentration for beta endosulfan. Obviously, there's a dearth of real world data to determine whether or not log Kow 3-4 chemicals could be bioconcentrating in adult salmon to levels that would be of regulatory concern.

Thanks!

Lon